

WHAT IS CLAIMED:

1. A method of protecting a sensor attached to a graft intended to be delivered within vasculature using a catheter, comprising:

attaching a sensor to a graft;

5 folding graft material to cover the sensor; and

placing the graft within a catheter.

2. The method of claim 1, the folding of graft material further comprising configuring the graft to define an H-shape.

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3. The method of claim 2, further comprising configuring a membrane of the sensor so that the membrane is substantially perpendicular to a radius of an unfolded graft.

15 4. The method of claim 3, further comprising folding more than two layers of graft material over the sensor.

20 5. The method of claim 2, further comprising configuring a membrane of the sensor so that the membrane is substantially parallel to a radius of an unfolded graft.

6. The method of claim 5, further comprising folding more than two layers of graft material over the sensor.

25 7. The method of claim 3, further comprising placing a double-folded section of graft material over the sensor.

8. The method of claim 3, further comprising a single folded section of graft material over the sensor.

9. A method of attaching a sensor including a pair of looped ears at
5 opposing ends to graft material, comprising:

form a knot in suture;

create multiple stitches in graft material superior to a sensor;

route the suture through a superior looped ear of the sensor;

create multiple stitches about a periphery of the sensor;

10 route sutures through an inferior looped ear of the sensor; and

create at least one double loop knot in the suture.

10. The method of claim 10, wherein stitch points are positioned 0.5 to
1.5 mm apart.

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11. The method of claim 10, wherein the double loop knot is positioned .5
mm from a stitch point.

12. The method of claim 10, further comprising creating stitch points
20 within each of the pair of looped ears of the sensor.

13. An endovascular grafting kit, comprising:

a graft;

a sensor; and

25 a handling device for handling the sensor, the handling device including a
cavity for receiving the sensor and a grasping surface for translating the handling
device loaded with the sensor.

14. The endovascular graft kit of claim 13, the handling device further
30 comprising a tubular body, the tubular body including a lengthwise split.

15. The endovascular graft kit of claim 13, the handling device further comprising an interior defined by a U-channel that receives the sensor and a wing structure formed on an exterior of the handling device.

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16. The endovascular graft kit of claim 13, the handling device including a superior end portion having a tubular shape with a longitudinal slot and a proximal end portion defining a handle extending longitudinally from the superior end portion.

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17. The endovascular graft kit of claim 13, wherein the handling device permits the sensor to be attached to the graft material while being held thereby.

18. An endovascular grafting kit, comprising:

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a graft;

a sensor; and

a holding device that temporarily attaches the sensor to a graft, the holding device permitting access and space to permanently attach the sensor to the graft.

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19. The endovascular grafting kit of claim 18, the holding device further comprising an adhesive strip structure including a main section for engaging the sensor and two pairs of wings that temporarily attach to graft material.

20. The endovascular grafting kit of claim 18, wherein the sensor includes two looped structures and the holding device further comprising a plurality of curved pins sized to be threaded through the two looped structures and graft material.

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21. An endovascular graft assembly, comprising:

a body;

a sensor; and

a pocket for receiving the sensor and to hold the sensor adjacent the graft

5 body.

22. The endovascular graft assembly of claim 21, wherein the pocket is weaved into the graft body.

10 23. The endovascular graft assembly of claim 21, wherein the pocket is formed from a patch attached to the body.

24. An endovascular graft assembly, comprising:

a body;

15 a sensor; and

a sensor handling or protective device that holds the sensor adjacent the graft until the graft is placed within vasculature.

20 25. The graft assembly of claim 24, wherein the sensor handling or protective device includes a substructure that allows the device to be disengaged from the body.

26. The graft assembly of claim 25, wherein the substructure is a release wire.

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27. The graft assembly of claim 25, wherein the substructure is dissolvable.